MATHEMATICS TALENT SEARCH OLYMPIAD(MTSO) 2019 - 2020									
								INTSO STAC	
Inst	Instructions:								
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1.	The difference between 1) 7690	n the place values of '8 2) 7960	3' and '4' in 78045 is 3) 7900	4) 7000	[	]			
2.	The descending order 1) 9411, 9145, 9149, 9 3) 9145, 9149, 9411, 9	of 9411, 9145, 9015, 9 9015 9015	149 is 2) 9411, 9149, 9145 4) 9411, 9015, 9145	, 9015 , 9149	[	]			
3.	Fifty six thousand four 1) 56440	hundred fifty is same a 2) 56450	as 3) 56504	4) 45650	[	]			
4.	Round off 34519 to the 1) 34500	e nearest thousands 2) 35000	3) 34510	4) 30000	[	]			
5.	Among the following, 1) $800 + 40 + 3$	is same as 8403 2) 8 + 4 + 0 + 3	3) 8000 + 40 + 3	4) 8000 + 40	[ )0 + 3	]			
6.	If there are 25, 632 sea then in which stadium 1) P	ts in stadium P, 30, 654 the number of seats we 2) Q	seats in stadium Q and re least 3) R	<ul><li>15, 620 seats in</li><li>4) both P an</li></ul>	stadiu [ d Q	m R, ]			
7.	Mohit was solving a mathematics question. he calculated that there are eighty six thousand four hundred seconds in a day. Help him to write this number in numeral form? [] 1) 80084 2) 80640 3) 86400 4) 86404								
8.	The numarater of a fraction is four less than the denominator if 1 is added to both its numerator and								
	denominator it become	es $\frac{1}{2}$ , then the fraction i	S		[	]			
	$1)\frac{4}{8}$	2) $\frac{3}{7}$	3) $\frac{2}{6}$	4) $\frac{15}{19}$					
9.	Among the following, 1) $12 \times 89 = 89 \times 12$ 3) $12 \times 89 = (10 + 2)$	is NOT true × 89	2) $12 \times 89 = 12 \times (8)$ 4) $12 \times 89 = (12 \times 8)$	80 + 9) 8) + (12 × 9)	[	]			
10.	A number is multiplied by $2\frac{1}{3}$ times it self and then 61 is subtracted from the product obtained. If								
	final result is 9200. Th 1) 36	en the number is 2) 63	3) 67	4) 37	[	]			
11.	Product of the third mu 1) 18	Iltiple of 4 and 9 is 2) 108	3) 54	4) 216	[	]			

12.	Priyanka read a book many pages did she rea 1) 42	of 252 pages in a week. ad each day ? 2) 32	She read same number 3) 34	• of pages each 4) 36	day. ] [	How ]
13.	A company paid 8688 the fare of one ticket ? 1) 4800	6 as airfare for 18 tickets 2) 4892	s to travel from New De 3) 5287	elhi to Chennai. 4) 4827	What [	was ]
14.	The numbers in region (ii) shows that the number can be divided by both					]
	1) 5 and 3		(iii) (i)			
	2) 15 and 9		(5, 10) $(ii)$ $(3,6,9)$ $(15)$ $(12,16,21)$			
	3) 20 and 9		25 35 24,27			
	4) 5 and 20					
15.	Select the correct matc 1) XIV + XXXVI = 6 3) XXXV + XXIX = 6	h 6 64	2) XX – XVIII = 3 4) LX – XXXIX = 23		[	]
16.	On friday Arjun drove	2432km, on Saturday h	e drove 820km and on	Sunday he drov	ve 429	9km.
	Approximately, how n 1) 3861km	any kms did he drive in 2) 3681 km	the three days ? 3) 3581km	4) 3426km	l	]
	1) 00011111	-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.) 0 .20		
17.	By how much is $\frac{19}{20}$ g	reater than $\frac{7}{20}$ ?			[	]
	1) $\frac{4}{5}$	2) $\frac{7}{5}$	3) $\frac{6}{5}$	4) $\frac{5}{6}$		
18.	Among the following,	set of fractions are arran	ged in descending order	:?	[	]
	1) $\frac{3}{6}, \frac{5}{6}, \frac{7}{6}, \frac{9}{6}, \frac{11}{6}$	2) $\frac{9}{7}, \frac{5}{7}, \frac{4}{7}, \frac{6}{7}, \frac{3}{7}$	3) $\frac{18}{19}$ , $\frac{11}{19}$ , $\frac{7}{19}$ , $\frac{6}{19}$ , $\frac{5}{19}$	4) $\frac{9}{8}, \frac{4}{8}, \frac{6}{8}, \frac{12}{8}$	$-,\frac{14}{8}$	
19.	What fraction of the gi	ven figure is unshaded '	,50		[	]
	12	3				
	$1) \frac{1}{8}$	$(2) \frac{1}{10}$				
	3) $\frac{5}{10}$	4) $\frac{4}{10}$				
20.	Sonal bought 9 eggs out of which 6 are bad. What fraction of eggs are good ? [ ]					
	$(1) \frac{1}{2}$	$2)\frac{2}{-}$	$(3)\frac{1}{2}$	$(1) \frac{1}{2}$		
	'' 9	2) 3	3 3	6		



29.	Among the following figures have a line of symmetry is				[	]
	1)		3)	4)		
30.	Varun made a shape by folding t Which shape did Varun make ?	he given card	board along dotted lines			
			3)	4)		
31.	Identify the number which is diff1) 532) 63	erent from oth	ner 3) 43	4) 73	[	]
32.	There are deers and peacocks in a 200. How many peacocks are th 1) 20 2) 30	a zoo. by cour ere	nting their heads they are 3) 50	80. The numbe	r of le	gs is ]
33.	Sum of all the numbers that are f 1) 30 2) 60	actors of 30 b	ut are not factors of 18 3) 80	4) 70	[	]
34.	The difference between 0.4 of 500 and $\frac{3}{10}$ of 90 is					]
	1) 395 2) 256	10	3) 450	4) 373		
35.	Among the following, has the sn	allest value			[	]
	1) $\frac{3}{5} \times 3$ 2) 2-0.	399	3) $2\frac{1}{20} + 0.87$	4) 13÷8		
36.	The number 897159388p is divisible by 4. The unknown non zero digit marked P will be					
	1) 2 2) 3		3) 4	4) 6	[	]
37.	The sum of all the prime factors1) 362) 30	of 't' is 5. Ide	ntify by a possible value 3) 20	of 't'. 4) 26	[	]
38.	If 42 is the lowest common mult 1) 39 2) 17	iple of 3 and 1	x, then the value of $k - 3$ 3) 14	is 4) 11	[	]
39.	Using the digits 1, 4, 6 and 8 each only once how many four digited odd numbers can be forme					
	1)4 2)5		3) 3	4) 6	[	]

40.	40. A shirt cost was ₹28.50 and Ramu gets discount ₹2.35 for each shirt. How much does he have pay for dozen shirts.						
	1) ₹302.60	2) ₹310.80	3) ₹312.50	4) ₹313.80	L	J	
41.	In a plantation there are trees are there in the pl 1) 120	e 12 rows of mango trees antation ? 2) 22	3) 32.	0 trees. How ma	any ma [	ingo ]	
42.	Rani's age is 9 years. I 1) 9 years	Her mothers age is thrice 2) 18 years	e her age. What is Rani' 3) 27 years	s mother age? 4) 12 years	[	]	
43.	The weight of one bag 1) 67kgs	of rice is 50 kgs. How 2) 850 kgs	much do 17, such bags v 3) 750kgs	weight in all ? 4) 950 kgs	[	]	
44.	44. A machine wraps 235 boxes of toys in an hour. How many boxes of toys can it wrap in 4 hours						
	1) 840	2) 740	3) 950	4) 940	L	]	
45.	8 people can sit safely then how many such je	in a jeep at one time. If eeps are required ?	48 people need to be tak	en from a villag	ge to a [	fair, ]	
	1) 8	2)7	3) 9	4) 6			
46.	If 74 apples are packed many apples will rema	l equally in 9 boxes. The in unpacked ?	n how many apples will	be there in each $4)$ 9 4	box? I [	How ]	
47.	When I am multiplied	by 9, the product is 729	. Who am I ?	+) ), +	ſ	1	
	1) 71	2) 72	3) 81	4) 91	L	J	
48.	A water tank holds 500 liters of water. How many water cans of 22 litres capacity can be filled with water ? How many liters of water will be left in the tank						
	1) 22, 16	2) 23, 17	3) 21, 16	4) 23, 16			
49.	How many three digit 1) 899	numbers are there in all 2) 100	3) 900	4) 999	[	]	
50. On the occassion deepavali festival each student of a class sends greeting cards to there are 20 students in the class, then the total number of greeting cards exchange denta is						s. If stu-	
	1) 380	2) 190	3) 180	4) 40	L	J	
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